CLAIMS

We claim:

1. A femur endoprosthesis for an artificial hip joint, comprising a shell (1') implantable without cement in an upper region of a femur (40') below the greater trochanter, a proximal end (8') of the shell being connectable with an adapter (2') for accommodating an artificial spherical joint part (20'), a distal end of the shell being bent caudally and constructed as a stem end (30'), an exterior of the shell and the stem end thereof being at least partially covered with an open-meshed three-dimensional spatial lattice structure (9').

2. The femur endoprosthesis according to claim 1, wherein the shell (1') is formed with a conical taper from its proximal end (8') up to a beginning of the bend of stem end (30').

3. The femur endoprosthesis according to claim 1, wherein the spatial lattice structure (9') is formed on shell exterior sides facing in caudal and cranial directions with a coarse mesh having mesh widths of about 2 to 6 mm.

4. The femur endoprosthesis according to claim 1, wherein the spatial lattice structure (9') is formed on shell exterior sides facing in ventral and dorsal directions with a fine mesh having mesh widths of about 1 to 2.5 mm.

5. The femur endoprosthesis according to claim 1, wherein the adapter (2') for the spherical joint part (20') is constructed substantially as a double plug cone having a peripheral flange (11') around a common base of the double cone wherein a conical sleeve (10') corresponding in shape to one end of the double plug cone is provided in a proximal area of the shell (1').

6. The femur endoprosthesis according to claim 5, wherein outward-facing surfaces of the flange (11') are at least partially covered with an open-meshed three-dimensional spatial lattice (12').

Add a2